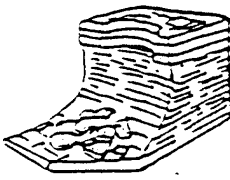
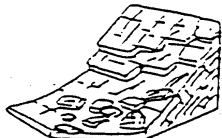
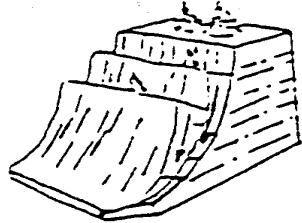
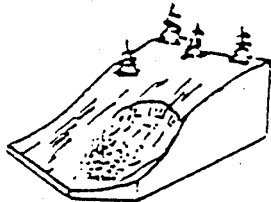
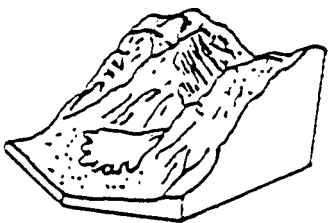


UNSTABLE LANDFORMS

Description: Unstable Landforms means areas showing evidence of mass down slope movement such as debris flow, landslides, rockfalls, and hummocky hill slopes with undrained depressions up slope. Unstable landforms may exhibit slip surfaces roughly parallel to the hillside; landslide scars and curving debris ridges; fences, trees and telephone poles which appear tilted; or tree trunks which bend uniformly as they enter the ground. Active sand dunes are unstable landforms.

Table 1. Descriptions and Characterizations of Different Unstable Landforms.

Process	Definition and Characteristics	Illustration
Rock fall and debris fall	The rapid descent of a rock mass, vertically from a cliff or by leaps down a slope. The chief means by which taluses are maintained.	
Rockslide and debris slide	The rapid, sliding descent of a rock mass down a slope. Commonly forms heaps and confused, irregular masses of rubble.	
Slump	The downward slipping of a coherent body of rock or regolith along a curved surface of the slumped mass, and any flat-lying planes in it, become rotated as they slide downward. The movement creates a sharp facing downslope.	
Debris Flow	The rapid downslope plastic flow of a mass of debris. Commonly forms an apron-like or tongue-like area, with a very irregular surface. In some cases, begins with slump at head, and concentric ridges and transverse furrows in surface of the tongue-like part.	
Variety: Mudflow	A debris flow in which the consistency of the substance is that of mud; generally contains a large portion of fine particles, and a large amount of water.	

Unstable Landform (cont'd)

Cross Section of Unstable Landform. The following diagram depicts an unstable landform.

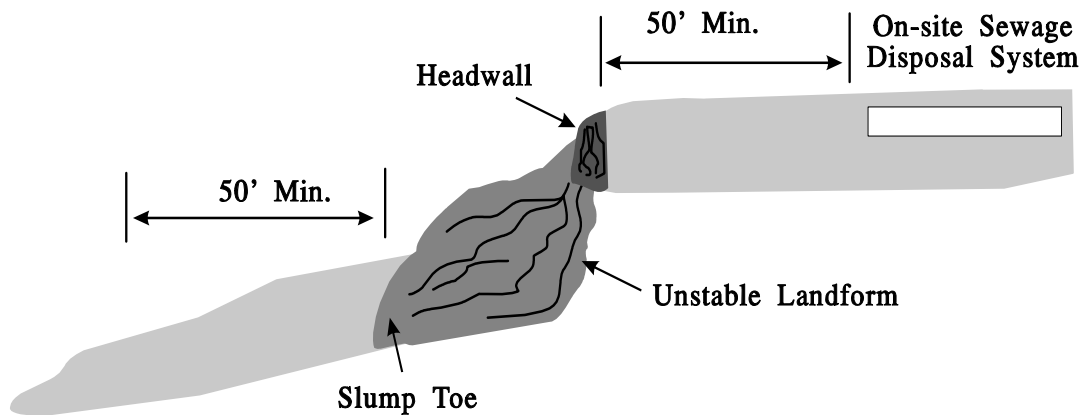


Figure 1. Cross Section of an Unstable Landform.

Additional Application Information Requirement.

Applicants proposing systems on a suspected unstable landform are required to provide supplemental information on their subsurface sewage disposal application as can be required in Subsection 005.04.o of the Rules. The septic tank and drainfield shall not be on an unstable landform, where operation of the subsurface sewage disposal system may be adversely affected.

Application for a subsurface sewage disposal system with any portion of the system on an unstable landform shall have the permit denied. Locating subsurface sewage disposal systems on unstable landforms will result in adverse system operation, performance and effluent treatment.